

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

5/A
BA 9/24/01

In re the Application of

Masatoshi ISHIKAWA, Haruyoshi TOYODA

Application No.: U.S. National Stage of PCT/JP00/01471

Filed: September 10, 2001

Docket No.: 110602

For: HIGH-SPEED VISION SENSOR

PRELIMINARY AMENDMENT

Director of the U.S. Patent and Trademark Office
Washington, D. C. 20231

Sir:

Prior to initial examination, and after entry of the annexes to the IPER, please amend
the above-identified application as follows:

IN THE SPECIFICATION:

Page 4, lines 4-25 and Page 5, lines 1-17, delete current paragraph and insert therefor:

AI
cont

In order to attain the above-described object, the present invention provides a high-speed vision sensor, comprising: a photodetector array having a plurality of photodetectors, which are arranged two-dimensionally in a plurality of rows and in a plurality of columns; an analog-to-digital converter array having a plurality of analog-to-digital converters which are arranged one-dimensionally such that each analog-to-digital converter corresponds to one row in the photodetector array, each analog-to-digital converter converting, into digital signals, analog signals which are successively outputted from the photodetectors in the corresponding row; a parallel processing system including a parallel processing element array, the parallel processing element array having a plurality of processing elements which